

ADE-24 Analog/Digital Enhancer

Some listeners feel digital recording is flat and sterile-sounding, lacking the warmth and presence of analog reproduction.

For those listeners, Margules Audio has designed the Magenta *ADE-24 Analog/Digital Enhancer*.

Until now, the problems involved in reconstructing the original analog signal from digital samples have been dealt with in the digital domain. This requires complex—and expensive—DSP (digital signal-processing) circuitry.

In our research, we found that the basic problems can be solved in the analog domain.

The design of the *ADE-24* is based on the idea that high-order odd harmonics are generated during the reconstruction of the analog signal. These harmonics falsify instrumental timbre, and create a bright, hard, or harsh sound.

We designed a circuit that removes these unwanted harmonics and more-closely approximate the original signal.

Implementing this design would normally require integrated circuits (with less-than-perfect sound quality), or costly discrete circuits. Our original circuit topology (patent pending) gives outstanding performance at a reasonable price.

History of Value and Innovation

Margules Audio been part of the audio industry for more than 40 years. Its entry-level products have been marketed under the *Magenta* brand for 13 years.

Magenta products are designed to offer the best cost/performance ratio possible. The *ADE-24* was engineered to provide most of the sonic benefits of expensive DSP, at a fraction of the cost.

The *ADE-24* substantially improves the sound quality of any digital source, with sample rating of 44.1Khz or less.

This isn't "magic"—it's the product of research in electronics and psychoacoustics.

You can expect the following improvements:

- enhanced detail
- greater "air" and acoustic space between instruments
- reduced "edginess" and harshness
- improved imaging
- increased dynamic range

The *ADE-24* is connected to the output of any digital audio source: CD

- DAT
- D/A converter
- Laserdisc
- AC-3 (Dolby Digital) and DTS
- DSS
- Computer multimedia

Precaution and care of your new ade-24

This product is intended to be plugged directly to the power supply line of your house, although we have taken all the precaution to make your equipment completely safe and complies with the safety standards, we recommend that if your are not going to use your system for an extended period of time to unplug it from the wall outlet.

Keep the equipment in a well ventilated area and far away from materials that can be ignited.

Do not expose to rain or direct sun light.

Do not open high voltage no serviceable parts inside.

The voltage supply should be $\pm 15\%$ of the specified in the product.

To clean it use a soft lightly hummed felp.

Specifications

Frequency response	15 – 20,000 HZ
THD	< 0.06%
noise	0.15 mV
maximum input voltage	4.7 V rms.
maximum output voltage	4.8 V rms.
power consumption	10 W

Trouble Shouting

It doesn't sound

The led to turn on,

-The device plugged to the wall outlet. And to have the correct voltage supply . If it still doesn't turn on there is an internal fuse of .5 A to protect the device, if you fill capable off changing it disconnect the ADE-24 from the wall outlet and open it from the screws in the bottom, It is very important to replace it with the same value to avoid fire hazards .

We recommend in this very rare occasions to take it to you dealer.

If the led does turn on

-The inputs and outputs correctly connected. The input should be connected to the output of the source, and output to the input of the preamplifier or the integrated amplifier.

If the above conditions are correct :

-The selector position in your preamplifier or integrated amplifier to be properly set.

If it sounds but not properly

Very noisy

- Correct power voltage input for the device.
 - Tight ground connections in the inputs and outputs of the signal.
- Note: It is recommendable to have as far away as possible the signal cables from the power cord.

Doesn't sound clear

-The maximum signal voltage before saturating the ADE-24 is 4.7 v. be sure not to overcome this level, do not connect directly an amplified device into it.

For more information please contact us at:

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